

PA QUESTIONNAIRE

NAME: Terry Andrews

LOCATION: 13431 Broadway Ext., OKC

SITE NAME: Brown Manufacturing Co.

DATE: September 18, 1989

MAJOR CONSIDERATIONS

- A. DOES ANY QUALITATIVE OR QUANTITATIVE INFORMATION EXIST THAT MAY INDICATE AN OBSERVED RELEASE TO AIR, GROUNDWATER, SOIL OR SURFACE WATER? no

Describe:

- B. IF THE ANSWER TO #1 IS YES, IS THERE EVIDENCE OF DRINKING WATER SUPPLY CONTAMINATION OR ANY OTHER TARGET CONTAMINATION (I.E., FOOD CHAIN, RECREATION AREAS, OR SENSITIVE ENVIRONMENTS)? N/A

Describe:

- C. ARE THERE SENSITIVE ENVIRONMENTS WITHIN A 4-MILE RADIUS OR 1.5 DOWNSTREAM MILES OF THE SITE? no

If yes, describe if any of the following apply:

- Multiple sensitive environments?
- Federally designated sensitive environment (c)?
- Sensitive environment (c) downstream on a small or slow flowing surface water body?

- D. IS THE SITE LOCATED IN AN AREA OF KARST TERRAIN? no

Describe:

- E. IS THE AQUIFER UNDERLYING THE SITE A "SOLE SOURCE" AQUIFER AS DESIGNATED ACCORDING TO SECTION 1424(E) OF THE SAFE DRINKING WATER ACT? no

Describe:

- F. DOES ANY QUALITATIVE OR QUANTITATIVE INFORMATION EXIST THAT PEOPLE LIVE OR ATTEND SCHOOL ON ONSITE CONTAMINATED PROPERTY? no

Describe:

#### SITE INFORMATION

SITE NAME: Brown Manufacturing Co.

ADDRESS: 13431 Broadway Extension

CITY: Oklahoma City STATE: OK ZIP: 73114

COUNTY: Oklahoma

EPA ID:

LATITUDE: 35 36' 25" LONGITUDE: 97 30' 0"

2. DIRECTIONS TO SITE (from nearest public road): From Broadway Extension and Memorial Road (north OKC) Drive south on west side service road .2 mile. Brown Manufacturing Company is large brick building on west side of road.

3. SITE OWNERSHIP HISTORY (use additional sheets, if necessary):

- A. Name of current owner: Russell Brown

Address: 13431 Broadway Extension

City: Oklahoma City County: OK State: OK Zip: 73114

Dates: From: 1942 To: Present Phone: 751-1323

B. Name of previous owner: Unknown

Address:

City: County: State: Zip:  
Dates: From: To: Phone:

Source of ownership data:

4. TYPE C : OWNERSHIP (Check all that apply):

☒ Private ☐ State ☐ Municipal  
☐ Federal ☐ County ☐ Other (describe):

NAME OF SITE OPERATOR: Russell Brown - C.D. Lawson

ADDRESS: same

CITY: COUNTY: STATE: ZIP:

PHONE: (465) 751-1323

BACKGROUND/OPERATING HISTORY

6. DESCRIBE OPERATING HISTORY OF SITE:

Brown Manufacturing Co. (BMC) is a fabricator and finisher of light metal (aluminum grilles, sun louvers, handrail). They have been anodizing and anodizing metal at the site since 1963. They discharge treated wastewater into the city sewer.

Source of information: Ref 8, 12

7. DESCRIBE SITE AND NATURE OF SITE OPERATIONS (PROPERTY SIZE, MANUFACTURING, WASTE DISPOSAL, STORAGE, ETC.): Site is approximately 5 acres with large building. They use a batch system of eleven tanks to anodize, alodize and pretreat before painting. They have a treatment process for wastewater and then discharge into city sewer. I was told that there are no hazardous waste on site.

Source of information: Ref 12

8. DESCRIBE ANY EMERGENCY OR REMEDIAL ACTIONS THAT HAVE OCCURRED AT THE SITE: none

Source of information: Ref 15

9. ARE THERE RECORDS OR KNOWLEDGE OF ACCIDENTS OR SPILLS INVOLVING SITE WASTES? no

Describe:

Source of information: Ref 15

10. DISCUSS EXISTING SAMPLING DATA AND BRIEFLY SUMMARIZE DATA QUALITY (E.G., SAMPLE OBJECTIVE, AGE/COMPARABILITY, ANALYTICAL METHODS, DETECTION LIMITS AND QA/QC): no sampling known

Source of information:

#### WASTE CONTAINMENT/HAZARDOUS SUBSTANCE IDENTIFICATION

11. FOR EACH SOURCE AT THE SITE, SUMMARIZE ON TABLE I (PAGE 12):

- 1) Methods of hazardous substance disposal, storage or handling;
- 2) Size/volume/area of all features/structures that might contain hazardous waste;
- 3) Condition/integrity of each storage disposal feature or structure;
- 4) Types of hazardous substances handled.

12. BRIEFLY EXPLAIN HOW WASTE QUANTITY WAS ESTIMATED (E.G., HISTORICAL RECORDS OR MANIFESTS, PERMIT APPLICATIONS, AIR PHOTO MEASUREMENTS, ETC): no waste present

Source of information: Ref 12

13. DESCRIBE ANY RESTRICTIONS OR BARRIERS ON ACCESSIBILITY TO ONSITE WASTE MATERIALS: Rear yard is fenced.

Source of information: Ref 12

#### GROUNDWATER CHARACTERISTICS

14. ANY POSITIVE OR CIRCUMSTANTIAL EVIDENCE OF A RELEASE TO GROUNDWATER? no

Describe:

Source of information: Ref 12



15. ON TABLE 2 (PAGE 13), GIVE NAMES, DESCRIPTIONS, AND CHARACTERISTICS OF GEOLOGIC/HYDROGEOLOGIC UNITS UNDERLYING THE SITE.

16. Net precipitation: 31 inch prec. - 60 inch evaporation = -29 inch net annual precipitation.

**SURFACE WATER CHARACTERISTICS**

17. ARE THERE SURFACE WATER BODIES WITHIN 2 MILES OF THE SITE? Yes

X Ditches           Lakes    X Pond  
X Creeks           Rivers           Other       

18. DISCUSS THE PROBABLE SURFACE RUNOFF PATTERNS FROM THE SITE TO SURFACE WATERS: Site runoff follows ditch along service road and travels north. Follows intermittent stream and pond system for 4 miles until it enters Chisolm Creek which travels north.

19. PROVIDE A SIMPLIFIED SKETCH OF SURFACE RUNOFF AND SURFACE WATER FLOW SYSTEM FOR 15 DOWNSTREAM MILES (SEE ITEM #36).

20. ANY POSITIVE OR CIRCUMSTANTIAL EVIDENCE OF SURFACE WATER CONTAMINATION? no

Describe:

Source of information:

21. ESTIMATE THE SIZE OF THE UPGRADIENT DRAINAGE AREA FROM THE SITE: 20 acres

Source of information: Ref 1

22. DETERMINE THE AVERAGE ANNUAL STREAM FLOW OF DOWNSTREAM SURFACE WATERS:

Water body: <u>small streams &amp; ponds</u>	Flow: <u>NA</u> cfs
Water body: <u>Chisolm Creek</u>	Flow: <u>NA</u> cfs
Water body: <u>Cottonwood Creek</u>	Flow: <u>NA</u> cfs

Source of information: Unknown

23. IS THE SITE OR PORTIONS THEROF LOCATED IN SURFACE WATER? no
24. IS THE SITE LOCATED IN A FLOODPLAIN (INDICATE FLOOD FREQUENCY)? no
25. IDENTIFY AND LOCATE (SEE ITEM #36) ANY SURFACE WATER RECREATION AREA WITHIN 15 DOWNSTREAM MILES OF THE SITE: none
- Source of information: Ref 1 & 2

26. TWO YEAR 24-HOUR RAINFALL: 3.73 inches

#### TARGETS

27. DISCUSS GROUNDWATER USAGE WITHIN FOUR MILES OF THE SITE: City of Edmond (pop 50,100) has 3 water wells which obtain water from Garber Sandstone 3-4 mile from site. Also, RTA Trailer Park (pop 100) has a well 3.5 mile from site.
- Source of information: Ref 7

28. SUMMARIZE THE POPULATION SERVED BY GROUNDWATER ON THE TABLE BELOW:

<u>Distance</u> <u>(miles)</u>	<u>Population</u>
0-1/4	0
1/4-1/2	0
1/2-1	0
1-2	0
2-3	0
3-4	<u>50,200</u>

Source of information: Ref 7, II

29. IDENTIFY AND LOCATE (SEE ITEM #36) POPULATION SERVED BY SURFACE WATER INTAKES WITHIN 15 DOWNSTREAM MILES OF THE SITE: none
- Source of information: Ref 7

30. DESCRIBE AND LOCATE FISHERIES WITHN 15 DOWNSTREAM MILES OF THE SITE (I.E., PROVIDE STANDING CROP OR PRODUCTION AND ACREAGE, ETC.): none
- Source of information:

31. IF SURFACE WATER RECREATION AREAS EXIST, CHOOSE RECREATIONAL  
USE CATEGORY, AND THEN DETERMINE THE POPULATION WITHIN THE  
ASSIGNED RADIUS FROM THE RECREATION AREA. (USE GEMS TO ALLOCATE  
INTO DISTANCE RINGS).

- a. Capital use and access improvements \_\_\_\_\_ (assigned radius=125 miles)  
b. Access improvements only \_\_\_\_\_ (assigned radius=80 miles)  
c. Observed use only \_\_\_\_\_ (assigned radius=40 miles)  
d. None of the above apply and access is not restricted X (assigned radius=10 miles)

<u>Distance</u> (miles)	<u>Population</u>
0-5	<u>87,500</u>
5-10	<u>454,600</u>
10-20	_____
20-40	_____
40-60	_____
60-80	_____
80-100	_____
100-125	_____

32. DETERMINE THE DISTANCE FROM THE SITE TO THE NEAREST OF EACH OF  
THE FOLLOWING LAND USES.

<u>Description</u>	<u>Distance</u> (miles)
Commercial/Industrial/ Institutional	<u>on site</u>
Single Family Residential	<u>.50</u>
Multi-Family Residential	<u>.50</u>
Park	<u>.25</u>
Agricultural	<u>.25</u>

Source of Information: Ref:

33. SUMMARIZE THE POPULATION WITHIN A FOUR-MILE RADIUS OF THE SITE:

<u>Distance</u> (miles)	<u>Population</u>
onsite	<u>25 employees</u>
0-1	<u>100</u>
1-1	<u>100</u>
1-1	<u>545</u>
1-2	<u>1000</u>
2-3	<u>20,000</u>
3-4	<u>20,000</u>

Source of information: Ref 1, 2

OTHER REGULATORY INVOLVEMENT

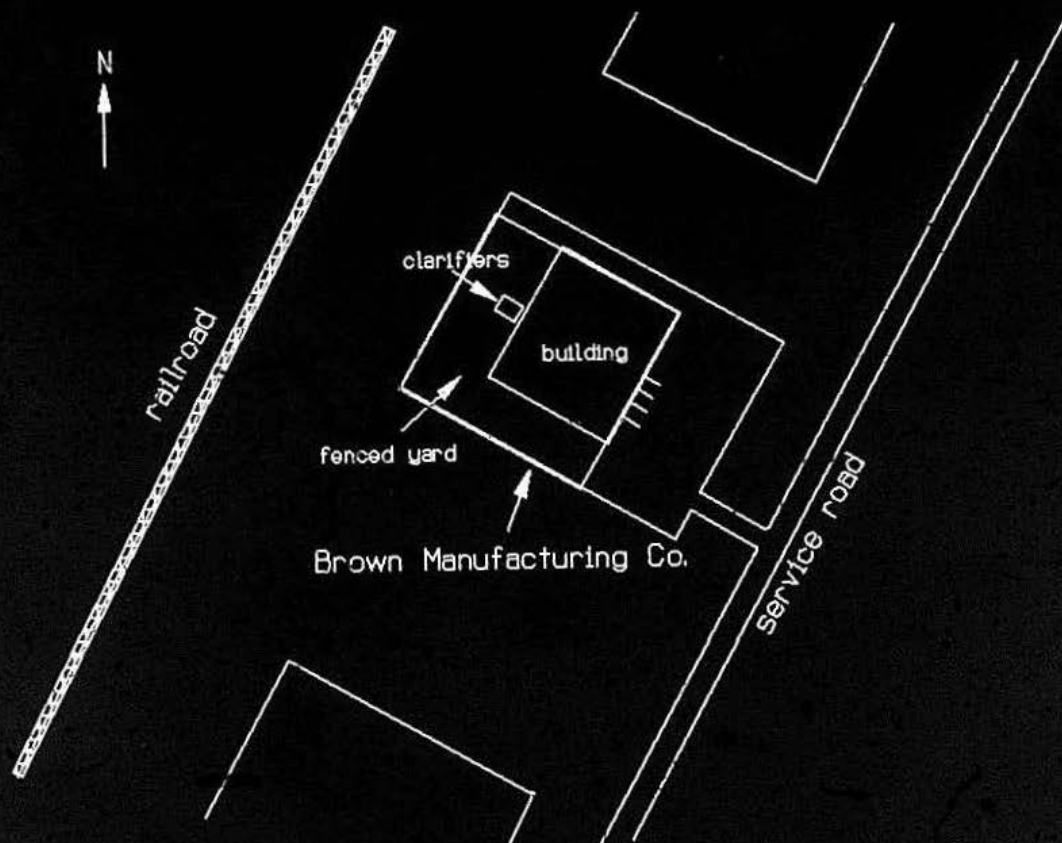
34. DISCUSS ANY PERMITS/VIOLATIONS:

County: none  
State: none  
Federal: none  
Other: City - Industrial Wastewater Discharge Permit

Source of information: Ref 14



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36. SURFACE WATER FEATURES

Provide a simplified sketch of surface runoff and surface water flow system for 15 downstream miles. Include all pertinent features, e.g., intakes, recreation areas, fisheries, gauging stations, etc.



TABLE 2  
HYDROGEOLOGIC INFORMATION<sup>1</sup>

STRATA NAME/DESCRIPTION	THICKNESS (ft.)	DEPTH TO WATER (ft.)	HYDRAULIC CONDUCTIVITY (cm/sec)	TYPE OF DISCONTINUITY <sup>2</sup>	SOURCE OF INFORMATION
Hennessey Shale - red clay shale containing thin beds of sandstone and white or greenish bands of sandy or calcareous shale. Permian Age	20 ft.	N.A.	poorly permeable	none	Ref 9, 10
Garber Sandstone - deep red to reddish orange massive and cross bedded sandstone interbedded with and interfingering with red shale and siltstone. Permian Age	500+	400'	moderately permeable	none	Ref 9,10,7
Wellington Formation - red massive and cross bedded sandstone irregularly interbedded with shale. Permian Age	500+	Unknown	moderately permeable	none	Ref 9,10
Oscar Group - shales and sandstones. Pennsylvanian Age	600	Unknown	Poorly permeable	none	Ref 10
Vanoss Group - shales and sandstones. Pennsylvanian Age	490	Unknown	Poorly permeable	none	Ref 10

1 Use additional sheets if necessary

2 Identify the type of discontinuity within four-miles from the site (e.g., river, strata "pinches out", etc.)

IF THE PAGE FILMED IS NOT  
AS LEGIBLE AS THIS LABEL,  
IT IS DUE TO THE QUALITY  
OF THE ORIGINAL.

WASTE CONTAINMENT AND HAZARDOUS SUBSTANCE IDENTIFICATION

SOURCE TYPE	SIZE (Volume/Area)	ESTIMATED WASTE QUANTITY	SPECIFIC COMPOUNDS	CONTAINMENT <sup>2</sup>	SOURCE OF INFORMATION
none known					

1 Use additional sheets if necessary

2 Evaluate containment of each source from the perspective of each migration pathway (e.g., ground water pathway - nonexistent, natural or synthetic liner, corroding underground storage tank; surface water - inadequate freeboard, corroding bulk tanks; air - unstabilized slag piles, leaking drums, etc.)

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